

APPARATUS AND METHOD FOR COLLECTING ACTIVE ROUTE  
TOPOLOGY INFORMATION IN A MOBILE AD HOC NETWORK

ABSTRACT OF THE DISCLOSURE

A first MANET node that collects route information associated with a first route from a source MANET node to a destination MANET node in a mobile ad hoc network (MANET). The first MANET node comprises: 1) a radio frequency (RF) transceiver for wirelessly communicating with other MANET nodes according to an ad hoc on-demand vector (AODV) protocol; and 2) a controller for receiving incoming data packets from the RF transceiver and sending outgoing data packets to the RF transceiver. The controller receives a Path Marker Request message generated by the source MANET node and retrieves first route topology data associated with the first route from the first Path Marker Request message. The route first topology data identifies all intermediate MANET nodes in the first route coupling the first MANET node to the source MANET node.